

Title (en)
PHOTONIC CHIP GRATING COUPLERS

Title (de)
GITTERKOPPLER FÜR PHOTONISCHEN CHIP

Title (fr)
COUPLEURS À RÉSEAU DE PUCE PHOTONIQUE

Publication
EP 3171207 A1 20170524 (EN)

Application
EP 16199714 A 20161121

Priority
• US 201562258221 P 20151120
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Abstract (en)
This disclosure provides systems, methods, and apparatus for a photonic chip. The photonic chip includes one or more electronic components in addition to one or more optical components. An optical coupler can be utilized for coupling external optical fibers or sources with the optical components. The optical coupler can include a beam splitter for splitting an incident light having both trans-electric (TE) and trans-magnetic (TM) polarizations into two beams having only TE and TM polarizations. The light beam with TM polarization is incident on a grating coupler on the chip having a horn section, which includes gratings. The light beam is reflected onto the grating coupler such that the direction of TM polarization is within the first plane of incidence, and the first beam of light is incident on the first plurality of gratings at an angle with respect to a normal to the plane of the first grating coupler.

IPC 8 full level
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Citation (search report)
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